M. T. BROWN.

Bale-Tie.

No. 162,023. Patented April 13, 1875.

FIG. I.

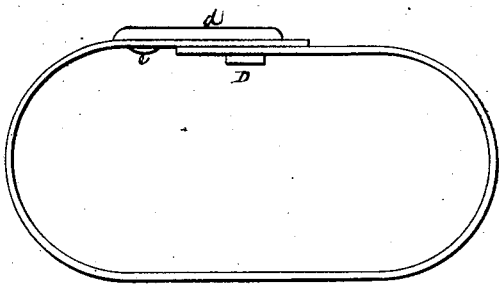


FIG. II.

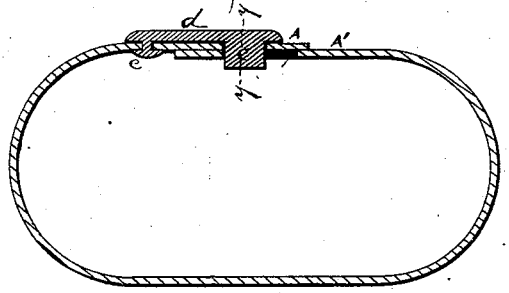


FIG. III.

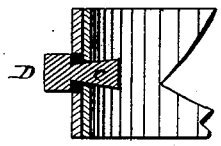
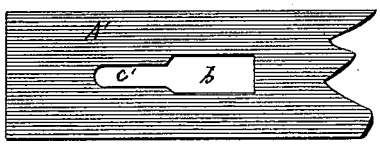


FIG. IV.



WITNESSES.

F. B. Townsend.

Will A. Moron

INVENTOR

Maurice T. Brown
per Attys
A. H. Evans & Co

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

MAURICE T. BROWN, OF TYLER, TEXAS.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **162,023**, dated April 13, 1875; application filed March 17, 1875.

To all whom it may concern:

Be it known that I, MAURICE T. BROWN, of Tyler, in the county of Smith and State of Texas, have invented a new and Improved Bale-Tie; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a side elevation. Fig. 2 is a longitudinal section. Fig. 3 is a cross-section through *y y*. Fig. 4 is a view of the key-hole in the tie.

The object of my invention is to produce a cheap and convenient tie, which is durable and which will not unlock should the rivet holding the button break from any strain on it, the button still holding by means of slots, and the strain being transferred to a slot in the end of the tie in which the button was riveted, and is an improvement on my invention patented October 20, 1874; and it consists in substituting for the locking-shoe a key-bit fitting in a key-hole and slot, as hereinafter described and claimed.

In order that those skilled in the art may make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A A′ are the ends of the ordinary iron hoop used for bale-ties. In the end A′ is a key-hole or slot, *b*, to receive the key-bit or hooking portion *c* of a peculiarly-shaped locking device, D, which is riveted to the end A. This locking device consists of a shank, *d*, with a projection, *e*, at one end, and at the other a key-bit portion, *c*, shaped as shown, and is of one piece with the shank, and having its under portion widened or thickened, as shown in Fig. 3. A key-hole, *b*, is punched in the end of the hoop A′, corresponding in size to the thickest portion of the key-bit *c*, and a slot, *c′*, connecting with the key-hole is also punched to fit the thinner portion of the key-bit next to the shank *d*, as shown in Fig. 4. The thick portion of the key is passed through the key-hole *b* in the end A′, and the locking device brought down on the hoop, so the bit of the key passes through the holes *b*, and then passes into the slot *c′*.

The tie being locked, the strain is on the inner side of the key-bit *c* and the riveted projection *e*. Suppose the projection breaks, starts, or pulls out, then the strain is transferred to to the key-bit *c* and the slot *c′*, and the tie still holds, as the formation of the locking device prevents tilting or throwing the key from the slot.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A bale-tie fastening consisting of the locking device D, riveted projection *e* at one end, and key-bit projection *c* at the other, in combination with the tie ends A A′, slotted as described, substantially as set forth.

MAURICE T. BROWN.

Witnesses:

R. M. CAIN,

E. P. SMITH.